

[POWER COMMANDER V]

FUEL AND IGNITION

2019 KTM 790 Duke

Installation Instructions



PARTS LIST

- 1 Power Commander
- 1 USB Cable
- 1 Installation Guide
- 2 Power Commander Decals
- 2 Dynojet Decals
- 2 Velcro strips
- 1 Alcohol swab
- 2 Posi-taps

**THE IGNITION MUST BE TURNED
OFF BEFORE INSTALLATION!**

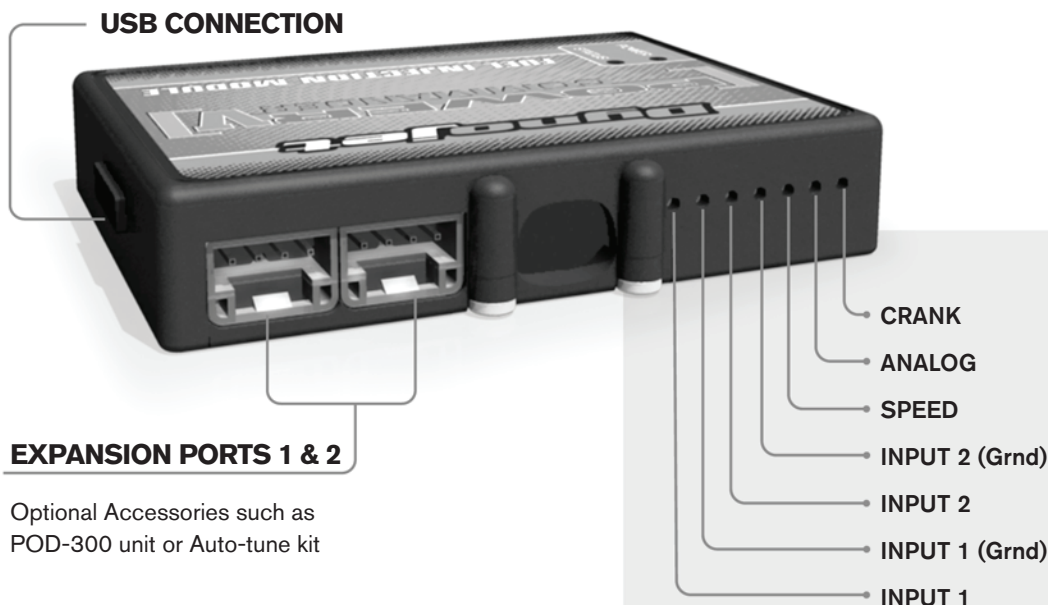
YOU CAN ALSO DOWNLOAD THE
POWER COMMANDER SOFTWARE AND
LATEST MAPS FROM OUR WEB SITE AT:
www.powercommander.com

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

Dynojet

2191 Mendenhall Drive North Las Vegas, NV 89081 (800) 992-4993 www.powercommander.com

POWER COMMANDER V INPUT ACCESSORY GUIDE



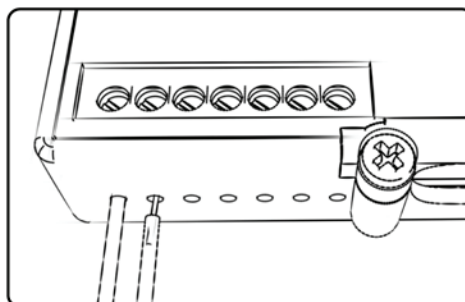
EXPANSION PORTS 1 & 2

Optional Accessories such as
POD-300 unit or Auto-tune kit

Wire connections:

To input wires into the PCV first remove the rubber plug on the backside of the unit and loosen the screw for the corresponding input. Using a 22-24 gauge wire strip about 10mm from its end. Push the wire into the hole of the PCV until it stops and then tighten the screw. Make sure to reinstall the rubber plug.

NOTE: If you tin the wires with solder it will make inserting them easier.



ACCESSORY INPUTS

Map -

(Input 1 or 2) The PCV has the ability to hold 2 different base maps. You can switch on the fly between these two base maps when you hook up a switch to the MAP inputs. You can use any open/close type switch. The polarity of the wires is not important. When using the Autotune kit one position will hold a base map and the other position will let you activate the learning mode. When the switch is "CLOSED" Autotune will be activated. (Set to Switch Input #1 by default.)

Shifter-

(Input 1 or 2) These inputs are for use with the Dynojet quickshifter. Insert the wires from the Dynojet quickshifter into the SHIFTER inputs. The polarity of the wires is not important. (Set to Switch Input #2 by default.)

Speed-

If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent kill times when using a quickshifter.

Analog-

This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the control center software.

Crank-

Do **NOT** connect anything to this port unless instructed to do so by Dynojet. It is used to transfer crank trigger data from one module to another.

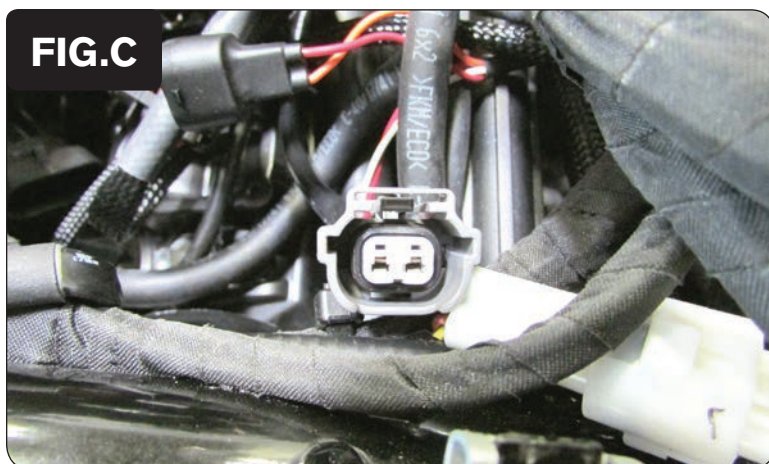


- 1 Remove the seat, fuel tank, and airbox.
- 2 Store the PCV module in the front of the battery compartment (Fig. A).

Use the supplied Velcro to secure the module. Use the alcohol swab to clean the surfaces before attaching the Velcro.



- 3 Route the PCV wiring harness forward towards the engine following closely to the stock wiring harness (Fig. B).



- 4 Unplug both fuel injectors (Fig. C).
- 5 Plug the pair of PCV connectors with ORANGE colored wires in-line of the left cylinder Fuel Injector and the stock wiring harness.

Plug the pair of PCV connectors with YELLOW colored wires in-line of the right cylinder Fuel Injector and the stock wiring harness.

FIG.D



- 6 Unplug the stock Ignition Coil connectors (Fig. D).

FIG.E



- 7 Plug the pair of PCV connectors with GREEN and BLUE colored wires in-line of the stock Ignition Coil connectors (Fig. E).
- 8 Secure the PCV ground wire with the small ring terminal to the stock common ground bolt.

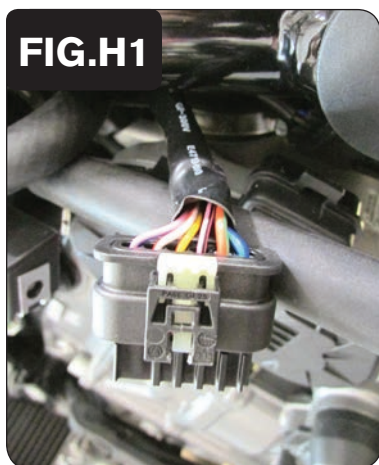
FIG.F



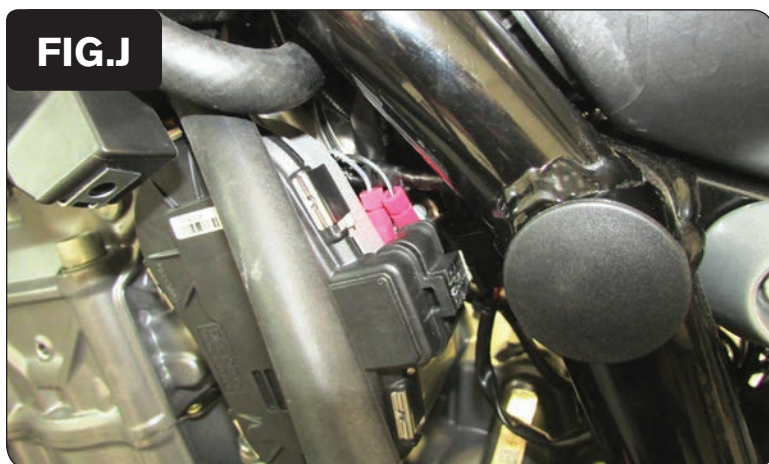
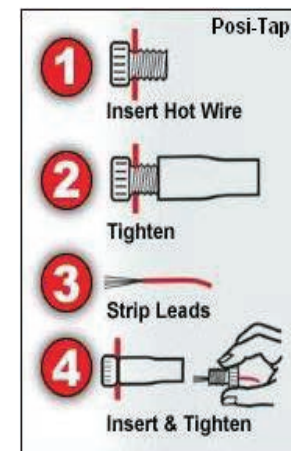
- 9 Unplug the Stock Crank Position Sensor connectors (Fig. F).
This is a BLUE 2-pin connector pair located above the left side of the cylinder head.



- 10 Plug the pair of PCV connectors with BROWN colored wires in-line of the stock Crank Position Sensor connectors (Fig. G).



- 11 Unplug the Throttle Body Servo connector (Fig. H1).
- 12 Use the supplied Posi-taps to attach the PCV GREY wire to the stock YELLOW/RED wire. Also attach the PCV BLACK/WHITE wire to the stock PINK/BLACK wire (Fig. H2).



- 13 Plug the stock connector back on to the Throttle Body Servo (Fig. J).
- 14 Reinstall the airbox, fuel tank, and seat.